

What Is Claimed Is:

1. A restraint system (1) for vehicle occupants, comprising restraining means (14), a control unit (13) for controlling the restraining means (14), and at least one pressure sensor (11) situated in a peripheral region (door (2)) of a vehicle, wherein the restraint system (1) also includes at least one position sensor (10) for measuring the position (Pos) of at least one movable part (window pane 2.1) of the vehicle, it being possible to combine the output signal from the position sensor (10) with the output signal from the pressure sensor (11).
2. The restraint system as recited in Claim 1, wherein the restraint system (1) includes a function module (12) in which correction values (K) are stored as a function of the position of the movable part (window pane 2.1).
3. The restraint system as recited in one of the preceding claims, wherein the movable part is a window pane (2.1) situated in the vehicle door (2), and the position sensor (10) is situated in the vehicle door (2).
4. The restraint system as recited in one of the preceding claims, wherein the window pane (2.1) is provided with a scale (20), preferably in an edge region.
5. The restraint system as recited in one of the preceding claims, wherein the scale (20) is glued to the window pane (2.1).

6. The restraint system as recited in one of the preceding claims,  
wherein the scale (20) is etched into the window pane (2.1).
7. The restraint system as recited in one of the preceding claims,  
wherein the scale (20) is designed in such a way that it can be scanned by optical means (position sensor (10)).
8. The restraint system as recited in one of the preceding claims,  
wherein the scale (20) is designed in such a way that it can be scanned by inductive or capacitive means (position sensor (10)).
9. The restraint system as recited in one of the preceding claims,  
wherein the window pane (2.1) has a wedge-shaped design at least in one edge region, in such a way that a value for the thickness of the window pane (2.1) can be unambiguously associated with a defined distance from the lower or upper edge of the window pane (2.1).
10. The restraint system as recited in one of the preceding claims,  
wherein the position sensor (10) includes means for measuring the thickness of the window pane (2.1).
11. The restraint system as recited in one of the preceding claims,  
wherein the position sensor (10) includes a scanning

element (30) for scanning the thickness of the window pane (2.1).

12. The restraint system as recited in one of the preceding claims,  
wherein the position sensor (10) includes optical or acoustical means for detecting the thickness of the window pane (2.1).
13. A method for operating a restraint system as recited in one of the preceding claims,  
wherein in a first operating phase (learning phase) pressure values are detected by a pressure sensor (11) as a function of the position of a movable part (window pane (2.1) of the vehicle, correction values (K) are associated with these pressure values, the correction values (K) are stored in a function module (12), and in a second operating phase (normal operation) pressure values detected by the pressure sensor (11) are linked to correction values (K) stored in the function module (12).